



A Dynamic Bottleneck-oriented Manufacturing Control System

By Huaxin Liu

Download now

Read Online ➔

A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu

Dynamic Bottleneck-oriented Manufacturing Control (DBNO) is a hybrid manufacturing control system focusing on discrete manufacturing systems with routing flexibility in a Make-To-Order environment. It has been developed for the simultaneous achievement of conflicting logistic objectives, such as short throughput time, low WIP, high schedule reliability and high output rate, while effectively coping with production disturbances, including internal disturbance and external disturbance. In order to verify the DBNO, discrete simulation experiments are conducted by using industrial data from a German manufacturer and the results are then comprehensively assessed. This is done by comparing it with well-known existing control methods including Constant WIP control, Load-oriented order release and Autonomous Control. Multiple key logistic performance measures are also considered in this assessment. The simulation results indicate that the proposed DBNO is both an effective and efficient manufacturing control system for simultaneously achieving the conflicting logistic objectives. Moreover it contains also immense potential for coping with production disturbances.

⬇ [Download A Dynamic Bottleneck-oriented Manufacturing Contro ...pdf](#)

📖 [Read Online A Dynamic Bottleneck-oriented Manufacturing Cont ...pdf](#)

A Dynamic Bottleneck-oriented Manufacturing Control System

By Huaxin Liu

A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu

Dynamic Bottleneck-oriented Manufacturing Control (DBNO) is a hybrid manufacturing control system focusing on discrete manufacturing systems with routing flexibility in a Make-To-Order environment. It has been developed for the simultaneous achievement of conflicting logistic objectives, such as short throughput time, low WIP, high schedule reliability and high output rate, while effectively coping with production disturbances, including internal disturbance and external disturbance. In order to verify the DBNO, discrete simulation experiments are conducted by using industrial data from a German manufacturer and the results are then comprehensively assessed. This is done by comparing it with well-known existing control methods including Constant WIP control, Load-oriented order release and Autonomous Control. Multiple key logistic performance measures are also considered in this assessment. The simulation results indicate that the proposed DBNO is both an effective and efficient manufacturing control system for simultaneously achieving the conflicting logistic objectives. Moreover it contains also immense potential for coping with production disturbances.

A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu Bibliography

- Rank: #8207703 in Books
- Published on: 2012-09-26
- Original language: English
- Binding: Paperback
- 187 pages

 [Download A Dynamic Bottleneck-oriented Manufacturing Contro ...pdf](#)

 [Read Online A Dynamic Bottleneck-oriented Manufacturing Cont ...pdf](#)

Editorial Review

Users Review

From reader reviews:

Kathleen Edwards:

The feeling that you get from A Dynamic Bottleneck-oriented Manufacturing Control System is the more deep you excavating the information that hide inside words the more you get serious about reading it. It does not mean that this book is hard to be aware of but A Dynamic Bottleneck-oriented Manufacturing Control System giving you excitement feeling of reading. The article writer conveys their point in certain way that can be understood through anyone who read it because the author of this publication is well-known enough. This book also makes your vocabulary increase well. That makes it easy to understand then can go with you, both in printed or e-book style are available. We suggest you for having this A Dynamic Bottleneck-oriented Manufacturing Control System instantly.

Ken Martin:

This A Dynamic Bottleneck-oriented Manufacturing Control System is completely new way for you who has curiosity to look for some information as it relief your hunger details. Getting deeper you onto it getting knowledge more you know otherwise you who still having little digest in reading this A Dynamic Bottleneck-oriented Manufacturing Control System can be the light food for yourself because the information inside this specific book is easy to get by anyone. These books create itself in the form that is certainly reachable by anyone, sure I mean in the e-book type. People who think that in e-book form make them feel drowsy even dizzy this reserve is the answer. So there is not any in reading a book especially this one. You can find actually looking for. It should be here for you actually. So , don't miss the item! Just read this e-book type for your better life along with knowledge.

Steven Peterson:

Don't be worry when you are afraid that this book will certainly filled the space in your house, you may have it in e-book technique, more simple and reachable. This A Dynamic Bottleneck-oriented Manufacturing Control System can give you a lot of good friends because by you looking at this one book you have issue that they don't and make anyone more like an interesting person. This kind of book can be one of a step for you to get success. This book offer you information that maybe your friend doesn't recognize, by knowing more than other make you to be great individuals. So , why hesitate? We need to have A Dynamic Bottleneck-oriented Manufacturing Control System.

Olivia Clinard:

Some individuals said that they feel fed up when they reading a publication. They are directly felt it when they get a half portions of the book. You can choose the book A Dynamic Bottleneck-oriented Manufacturing Control System to make your own reading is interesting. Your skill of reading talent is developing when you including reading. Try to choose basic book to make you enjoy you just read it and mingle the opinion about book and studying especially. It is to be initially opinion for you to like to open up a book and study it. Beside that the guide A Dynamic Bottleneck-oriented Manufacturing Control System can to be your brand new friend when you're sense alone and confuse with the information must you're doing of that time.

**Download and Read Online A Dynamic Bottleneck-oriented
Manufacturing Control System By Huaxin Liu #SFDL329BCQ8**

Read A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu for online ebook

A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu books to read online.

Online A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu ebook PDF download

A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu Doc

A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu Mobipocket

A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu EPub

SFDL329BCQ8: A Dynamic Bottleneck-oriented Manufacturing Control System By Huaxin Liu